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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/525,638	02/24/2005	Martin Hofmeister	27392/26949	2118	
4743	7590 06/19/2006		EXAM	EXAMINER	
MARSHA	LL, GERSTEIN & BOF	DESTA,	DESTA, ELIAS		
233 S. WACKER DRIVE, SUITE 6300 SEARS TOWER			ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60606	2857			
			DATE MAILED: 06/19/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A (1 - 1/1 -)				
	Application No.	Applicant(s)				
	10/525,638	HOFMEISTER, MARTIN				
Office Action Summary	Examiner	Art Unit				
	Elias Desta	2857				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of the second period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 Fe	ebruary 2005.					
,						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
·- · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 4-9</u> is/are rejected.	S)⊠ Claim(s) <u>1 and 4-9</u> is/are rejected.					
7)⊠ Claim(s) <u>2 and 3</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		•				
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>24 February 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☑ Acknowledgment is made of a claim for foreign a) ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>2/24/2005</u> .	6) Other:	and the second s				

Application/Control Number: 10/525,638 Page 2

Art Unit: 2857

Detailed Action

Claim objection

- 1. Claims 1-9 are objected to because of the following minor informalities:
 - Claim 1 recites the limitation "the envelope curve" in page 11, line 3 and "the absolute value" in page 11, line 15. There is insufficient antecedent basis for these limitations in the claim. The remaining claims 2, 3 and 5-9 are objected to because of their dependency on the base claims.
 - > Claim 4 recites the word "logarithmizing", and it may have to be replaced by 'logarithm value' or with some other proper expression.

Appropriate corrections are required.

Claim rejection – 35 U.S.C. 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. <u>Claims 1 and 4-9</u> are rejected under 35 U.S.C. 102(b) as anticipated by <u>Jelinek et al.</u> (UOS Article, 'Frequency-Domain Spectral Envelope Estimation for Low Rate Coding of Speech', hereon <u>Jelinek</u>)

Application/Control Number: 10/525,638

Art Unit: 2857

In reference to claim 1: <u>Jelinek</u> teaches a method for determining an envelope curve of a modulated input signal (see <u>Jelinek</u>, page 1, abstract). The method includes the steps of:

- Generating a digital samples of a modulated input signals (see <u>Jelinek</u>, Fig. 1, input 's' to pitch analysis block is a discrete input as described in page 1, equation 2);
- > Generating Fourier-transformed samples by Fourier transforming the digital samples (see <u>Jelinek</u>, page 2, Fig. 1, DFT);
- Fourier transformed samples by removing with negative frequencies or with positive frequencies from the Fourier transformed samples because the frequency in <u>Jelinek</u> is defined in a bounded range, such as <-2,2> between frequencies of adjacent harmonics as described in page 3 of equation 5);
- Generating inverse-transformed samples by inverse Fourier transforming the sideband-cleared, Fourier-transformed sample (see <u>Jelinek</u>, page 2, Fig. 1, IDFT); and
- > Forming values of an absolute value of the inverse transformed samples (see <u>Jelinek</u>, page 2, Fig. 1, IDFT absolute value squared)

With regard to claim 4: <u>Jelinek</u> further teaches that the method includes taking the logarithm values of the absolute value relative to an effective value of the

Application/Control Number: 10/525,638

Art Unit: 2857

inverse-transformed samples because Fig. 2 shows that envelope estimate is expressed in decibel which is a ratio or an effective value of a logarithmic factor).

With regard to claim 5: <u>Jelinek</u> further teaches that the method includes displaying the frequency distribution of the logarithmic values as a function of logarithmic levels (see <u>Jelinek</u>, Fig. 2, amplitude versus frequency curve).

With regard to claims 7-9: Jelinek further teaches that a method having a discrete Fourier transform and inverse discrete Fourier-transform, which are signal-processing programs, implemented in microprocessor or computer architecture.

Conclusion

- 4. Citation of pertinent prior art:
 - > <u>Goeckel et al.</u> (IEEE Article, 'Increasing Diversity with Non-Standard Signal Sets in Wireless OFDM Systems') teaches methods of high-speed wireless communication in single and multi-carrier system employing interleaved error control coding.
 - > <u>Sciacero et al.</u> (U.S. Patent 6,636,048) teaches method for diagnosing performance problem in cabling.
 - > <u>Vaman et al</u>. (U.S. Patent 5,956,372) teaches coding system for digital transmission compression.
 - > <u>Pierzga et al</u>. (U.S. PAP 2002/0114270) teaches multiplex OFDM communication.

Application/Control Number: 10/525,638

Art Unit: 2857

5. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Elias Desta whose telephone number is (571)-

272-2214. The examiner can normally be reached on M-Th (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax

phone number for the organization where this application or proceeding is assigned

is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elias Desta Examiner

Art Unit 2857

- e.d.

June 6, 2006

UPERVISORY PATENT EXAMINER

Page 5

TECHNOLOGY CENTER 2809